REVISIONS				
REV	ECO	DESCRIPTION	APPROVED	DATE
B	1002469	See CO	JC	8/1/09
C	1004225	Add Classic Delivery Module	JC	1/26/11
D	1005098	SEE CO	CF	10/6/11
E	1005107	Correct routing error for 104891-01, sheet 3.	JS	10/19/11

USB Printer — PRINTER
USB Barcode/ Memory — USB 1
Ethernet
I/O Panel

3PH. 200-240 380-430 VAC 50/60Hz

Vacuum Pump 20-52413
Vacuum Valve 28-52422

24 VDC Power Supply 40-53112-001 (+24 VDC)
ATX Power Supply 102468-01 (Alt: 102591-01)
LFPS2 40-52154 (LFPS)
IEC 320 PVM
Feedthrough 40-52411

AC Distribution Sub-System 40-52312

Chamber Thermistor Front 47-53575
Chamber Thermistor Mid 47-53575
Chamber Thermistor Back 47-53575
Input Door Thermistor 47-53575
Output Door Thermistor 47-53575
Thermal Electric Thermistor 47-53575

Vaporizer Heaters 40-51974
Input Door Heaters 40-52781-001
Output Door Heaters 40-52781-001
Input Door Motor 42-52778-001
Output Door Motor 42-52778-002
Chamber Heaters Front 40-52396
Chamber Heaters Mid 40-52396
Chamber Heaters Back 40-52396

Vaporizer Thermistor 47-53575
Vent Valve 02-52424
Oil Return Valve 28-51498-001
Pressure Transducer 0~30 Torr 86-52584-002 (CH-30)
Pressure Transducer 0-200Torr 86-52584-001 (CH-200)
Pressure Transducer 0~30 Torr 86-52584-002 (TE-30)
TE Fan (1)
TE Fan (2)
Inlet Valve
Transition Valve
Thermal Electric (1)
Thermal Electric (2)
Thermostat
Vaporizer/Condensor Assembly #1 02-52303

Input Foot Switch
Output Foot Switch

DELIVERY MODULE (SEE SHT 3)

USB HUB 40-52700-001 (PRINTER, USB1, Port#1, Port#2, Port#3, Port#4, LCD IN DOOR, DUO)

UNIVERSAL CONTROL BOARD 04-53577
Ethernet | USB B | USB B | LCD OUT DOOR | USB A | PCMCIA
J42 CPU FAN; P42, P50, J50
P20 PLASMA, P49, J49, P52, J52
Interface Connectors to UCB

Output Display Assembly 40-52308
Input Display Assembly 40-52308

J7-B Reference Pressure Transducer
J7-D ATM Pressure Transducer
J7-F Spare Pressure Transducer

J42 Extra Temperature Sensor
J2, J4 Not Used - Door Fans
J55 Not Used - TE3

INTERFACE BOARD 04-52307

IMS
UV Detector Assembly 04-52108
UV Lamp Power Supply 40-51449
UV Lamp Assembly 04-50544
H_2O_2 Monitor Sub-Assembly

RFID Transciever
RFID Antennae 04-53067
Cassette Guide Sensor 04-51379
Delivery Solenoid Valve 28-53786
Actuator 42-54136
Cassette Guide Stepper Motor 42-51237
Disposal Box Sensors 04-53759
Delivery Sub-System 02-52302

SEE SHEET 3

System Fan 1
System Fan 2
System Fan 3
System Fan 4
ATM Switch 86-50542

Input Side: Door Close Sensor; Door Open Sensor; Door Safety Sensor
Output Side: Door Close Sensor; Door Open Sensor; Door Safety Sensor

Printer In Door
Printer Out Door

Color Codes
- MP-label at system level
- MP-Cross out label at system level
- Cable end swapping is acceptable

Note: If there is no text in the reference designator box, there is no label

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MATERIAL
FINISH

METRIC

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS AND INCLUDE THICKNESS OF PLATING TOLERANCES

HOLE DIA: ± 0.1
0.X ±
0.XX ±
ANGLES ± 30˚

SURFACE FINISH $\sqrt{1.6}$ OR BETTER
DEBURR AND BREAK ALL SHARP EDGES

	10104
NEXT ASSY	USED ON
APPLICATION	

THIRD ANGLE PROJECTION

IRVINE, CALIFORNIA 92618

	APPROVED	DATE
DRAWN	John Chien	2/9/07
CHECKED	Yan Fang	2/9/07
APPROVED	Bill Wong	2/9/07
APPROVED		

SYSTEM INTERCONNECT DIAGRAM, STERRAD® 100NX

10-10104-0-100 E

SCALE: NONE SHEET 1 OF 3

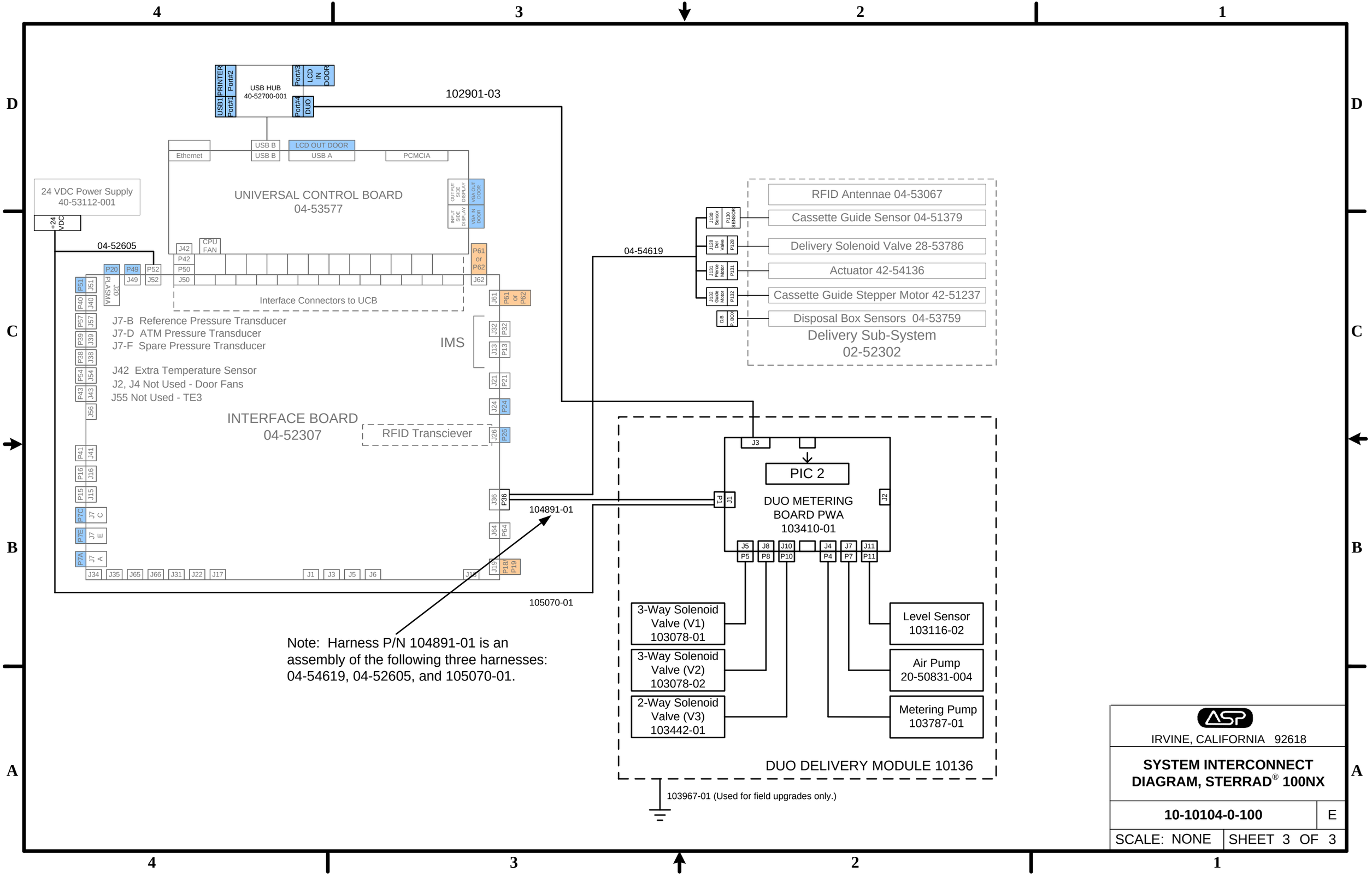
		Subsystem		Connector Type		Cable Type	
Description	**Part Number**	**From**	**To**	**From**	**To**	**Custom**	**Off the Shelf**
Harness Assembly, LCD	04-52588-x-001	Interface Board	LCD	Molex MiniFit Jr.	2.5mm Female Plug	X	
Harness Assembly, IMS	04-52589-x-001	Interface Board	IMS Board	AMP 0.1"	AMP 0.1"	X	
Harness Assembly, H2O2 Detector	04-52590-x-001	Interface Board	H2O2 Detector	Molex KK	Molex KK	X	
Harness Assembly, Delivery Subsystem (Non-DUO)	04-54619-x-001 part of 104891-01	Interface Board	H2O2 Delivery	AMP 0.1"	Molex MiniFit Jr.	X	
Harness Assembly, Delivery Subsystem (DUO)	04-54619-x-001 part of 104891-01	DUO Metering Board	H2O2 Delivery	AMP 0.1"	Molex MiniFit Jr.	X	
Harness Assembly, Door Sensors	04-52594-x-001	Interface Board	Door Sensors	AMP 0.1"	Molex KK	X	
Harness Assembly, Thermoelectrics	04-52598-x-001	Interface Board	Thermoelectrics	Molex MFJr. + Molex KK	Molex MiniFit Jr.	X	
Harness Assembly, Pressure Transducers	04-52599-x-001	Interface Board	Pressure Transducers	RJ11	DB9F	X	
Harness Assembly, Chamber Heaters	04-52600-x-001	AC Enclosure	Chamber Heaters	Molex MiniFit Jr.	Molex MiniFit Jr.	X	
Harness Assembly, Door Heaters	04-52601-x-001	AC Enclosure	Door Heaters	Molex MiniFit Jr.	Molex MiniFit Jr.	X	
Harness Assembly, Vaporizor/TE Heaters	04-52602-x-001	AC Enclosure	Vap/TE Heaters	Molex MiniFit Jr.	Molex MiniFit Jr.	X	
Harness Assembly, 24VDC Power Supply	04-52605-x-001 part of 104891-01	24V Power Supply	Interface Board	Molex KK 0.156"	Molex MiniFit Jr.	X	
Harness Assembly, Thermistor Extensions	04-52606-x-001	Interface Board	CHB-F Thermistors	Molex MicroFit Jr.	Molex MicroFit Jr.	X	
Harness Assembly, Thermistor Extensions	04-52606-x-002	Interface Board	CHB-M Thermistors	Molex MicroFit Jr.	Molex MicroFit Jr.	X	
Harness Assembly, Thermistor Extensions	04-52606-x-003	Interface Board	CHB-BThermistors	Molex MicroFit Jr.	Molex MicroFit Jr.	X	
Harness Assembly, Thermistor Extensions	04-52606-x-004	Interface Board	VAP Thermistors	Molex MicroFit Jr.	Molex MicroFit Jr.	X	
Harness Assembly, Thermistor Extensions	04-52606-x-005	Interface Board	In-Door Thermistors	Molex MicroFit Jr.	Molex MicroFit Jr.	X	
Harness Assembly, Thermistor Extensions	04-52606-x-006	Interface Board	Out-Door Thermistors	Molex MicroFit Jr.	Molex MicroFit Jr.	X	
Harness Assembly, Thermistor Extensions	04-52606-x-007	Interface Board	TE Thermistors	Molex MicroFit Jr.	Molex MicroFit Jr.	X	
Harness Assembly, Vent Valve	04-52607-x-001	Interface Board	Vent Valve	Molex MiniFit Jr.	Molex MiniFit Jr.	X	
Harness Assembly, Oil Return Valve	04-52608-x-001	Interface Board	Oil RTN Valve	Molex MiniFit Jr.	Molex MiniFit Jr.	X	
Cable, RJ45, Category 5E, 10ft	66-52609-001	Controller Board	Ethernet (I/O Panel)	RJ45	RJ45		X
Cable, Extension, USB, 10ft	66-52610-001	USB HUB	USB (I/O Panel)	USB	USB		X
Cable, DSUB, 15 Position, M/F, 10ft	66-52612-001	Interface Board	LFPS2	DB15F	DB15M		X
Cable, DSUB, 9 Position, M/M, 5ft	66-51385-006	Interface Board	Printer (In/Out Door)	DB9M	DB9M		X
Cable, Twinax, 2.5ft	66-50518-002	LFPS2	Feedthrough	Twinax	Twinax		X
Cable, Jumper Cordset, 1m	66-52617-001	AC Enclosure	LFPS2/PVM	IEC-60320-E	IEC-60320-C13		X
Cable, Jumper Cordset, 2m	66-52618-001	AC Enclosure	ATX PS/24VDC PS	IEC-60320-E	IEC-60320-C13		X
Harness Assembly, Door Motors	04-52619-x-001	AC Enclosure	Door Motors	Molex MiniFit Jr.	Molex MiniFit Jr.	X	
Harness Assembly, Foot Switch	04-53105-x-001	Interface Board	Foot Switch	Molex KK	Molex MiniFit Jr.	X	
Harness Assembly, Sensor, Disposal Box	04-53107-x-001	Interface Board	Delivery	Molex MiniFit Jr.	Molex MiniFit Jr.	X	
Harness Assembly, Protective Earth Ground	04-53106-x-01	AC Enclosure	Chassis	Ring Terminal	Ring Terminal	X	
Cable Ribbon, DSUB 25, M/F	66-53812-001	Interface Board	AC Enclosure	DB25M	DB25F		X
Cable VGA, HDSUB, 15 pos, 3ft.	66-51385-004	Controller Board	Input Display Assembly	HDSUB-15M	HDSUB15M		X
Cable VGA, HDSUB, 15 pos, 7.5ft.	66-51385-010	Controller Board	Output Display Assembly	HDSUB-15M	HDSUB15M		X
Cable, USB	66-52610-002	Controller Board	USB HUB	USB	USB		X
Harness Assembly, Metering Board Interface	105070-01 part of 104891-01	Interface Board	DUO Metering Board	AMP 0.1"	AMP 0.1"	X	
Cable, USB, Shielded, 1m, Type A male /B male	102901-03	USB HUB	DUO Metering Board	USB	USB		X

IRVINE, CALIFORNIA 92618

SYSTEM INTERCONNECT DIAGRAM, STERRAD® 100NX

10-10104-0-100 | E

SCALE: NONE | SHEET 2 OF 3



IRVINE, CALIFORNIA 92618

SYSTEM INTERCONNECT DIAGRAM, STERRAD® 100NX

10-10104-0-100	E
SCALE: NONE	SHEET 3 OF 3